## METHOD FOR REDUCING ARTIFACTS IN NUCLEIC ACID AMPLIFICATION ABSTRACT OF THE DISCLOSURE

Disclosed are compositions and methods useful for reducing the formation of artifacts during nucleic acid amplification reactions. The method uses special oligonucleotides, referred to herein as template-deficient oligonucleotides, that cannot serve as a template for nucleic acid synthesis over part of their length. This prevents the oligonucleotides from serving as effective templates in the formation of artifacts. The disclosed method involves using a template-deficient oligonucleotide as at least one of the oligonucleotides (preferably a primer) in a nucleic acid amplification reaction, where the template-deficient oligonucleotide comprises one or more template-deficient nucleotides, preferably at or near the 5' end of the template-deficient oligonucleotide. The disclosed method is useful for reducing artifacts in any nucleic acid amplification reaction involving oligonucleotides. In a preferred form of the method the nucleic acid amplification reaction does not involve thermal cycling. The disclosed method is effective at reducing non-cycle oligonucleotide-based artifacts. Also disclosed are kits useful for reducing artifacts in nucleic acid amplification reactions. The disclosed kits include a templatedeficient oligonucleotide, wherein the template-deficient oligonucleotide comprises one or more template-deficient nucleotides, and a nucleic acid polymerase.